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After review of the air emissions license renewal application, staff investigation reports and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A., Section 344 and Section 590, the Department finds the following facts:

I. REGISTRATION

A. Introduction

Kennebunk Light and Power District (Kennebunk L&P) of Kennebunk, Maine has applied to renew their Air Emission License permitting the operation of their electricity generation facility.

B. Emission Equipment

Kennebunk L&P is authorized to operate the following equipment:

Electrical Generation Equipment

<u>Equipment</u>	Maximum <u>Capacity</u>	Fuel Type, <u>% Sulfur</u>	Firing Rate (gal/hr)	Pollution <u>Controls</u>	Stack #
1000 kW	14.0 MMBtu/hr	Diesel fuel,	100.0	None	1
Diesel Generator		0.05%			
		Sulfur			

C. Application Classification

The application for Kennebunk L&P does not include the licensing of increased emissions or the installation of new or modified equipment. Therefore, the license is considered to be a renewal of current licensed emission units only.

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II. BEST PRACTICAL TREATMENT (BPT)

A. Introduction

In order to receive a license the applicant must control emissions from each unit to a level considered by the Department to represent Best Practical Treatment (BPT), as defined in Chapter 100 of the Air Regulations. Separate control requirement categories exist for new and existing equipment as well as for those sources located in designated non-attainment areas.

BPT for existing emissions equipment means that method which controls or reduces emissions to the lowest possible level considering:

- the existing state of technology;
- the effectiveness of available alternatives for reducing emission from the source being considered; and
- the economic feasibility for the type of establishment involved.

B. Diesel Generator

The 14.0 MMBtu/hr diesel generator is used to generate electricity during peak periods. It typically operates during the winter months for a few hours in the morning and at night.

Total fuel use in the Diesel Generator shall not exceed 25,000 gallons/year of diesel fuel, based on a 12 month rolling total, with a maximum sulfur content of 0.05% by weight and is therefore considered to be receiving BPT.

A summary of the BPT analysis for each of the pollutants is discussed below:

- 1. Chapter 106 regulates fuel sulfur content, however the use of 0.05% sulfur by weight fuel is more stringent and shall be used.
- 2. SO_2 , NO_X , CO and VOC emission limits are based upon AP-42 data dated 10/96 for diesel engines larger than 600 horsepower.
- 3. MEDEP Chapter 103 regulates PM emission limits, however the limit in the previous license is more stringent and shall be used for PM and PM_{10} .
- 4. Opacity from the Diesel Generator shall not exceed 30% on a six (6) minute block average basis, except for two (2) six (6) minute block averages in a 3-hour period.

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C. Annual Emission Restrictions

Kennebunk L&P shall be restricted to the following annual emissions, based on a 12 month rolling total:

• 25,000 gallons per year diesel fuel, (0.05% sulfur by weight maximum) in the diesel units

Total Allowable Annual Emission for the Facility

(used to calculate the annual license fee)

<u>Pollutant</u>	Tons/Year
PM	0.2
PM_{10}	0.2
SO_2	0.1
NO_x	5.6
СО	1.5
VOC	0.2

III.AMBIENT AIR QUALITY ANALYSIS

According to the Maine Regulations Chapter 115, the level of air quality analyses required for a renewal source shall be determined on a case-by case basis:

The height of the stack is approximately 20 feet. The utility building associated with the diesel generator is 10 feet tall and there are no other structures within 500 feet. The 20 foot AGL stack is 80% of the GEP stack height. Based on total facility emissions and less than 500 hours of operation per year, Kennebunk L&P is below the emissions level required for modeling and monitoring.

ORDER

Based on the above Findings and subject to conditions listed below, the Department concludes that the emissions from this source:

- will receive Best Practical Treatment,
- will not violate applicable emission standards,
- will not violate applicable ambient air quality standards in conjunction with emissions from other sources.

The Department hereby grants Air Emission License A-128-71-E-R subject to the following conditions:

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- (1) Employees and authorized representatives of the Department shall be allowed access to the licensee's premises during business hours, or any time during which any emissions units are in operation, and at such other times as the Department deems necessary for the purpose of performing tests, collecting samples, conducting inspections, or examining and copying records relating to emissions.
- (2) The licensee shall acquire a new or amended air emission license prior to commencing construction of a modification, unless specifically provided for in Chapter 115.
- (3) Approval to construct shall become invalid if the source has not commenced construction within eighteen (18) months after receipt of such approval or if construction is discontinued for a period of eighteen (18) months or more. The Department may extend this time period upon a satisfactory showing that an extension is justified, but may condition such extension upon a review of either the control technology analysis or the ambient air quality standards analysis, or both.
- (4) The licensee shall establish and maintain a continuing program of best management practices for suppression of fugitive particulate matter during any period of construction, reconstruction, or operation which may result in fugitive dust, and shall submit a description of the program to the Department upon request.
- (5) The licensee shall pay the annual air emission license fee to the Department, calculated pursuant to Title 38 M.R.S.A. \ 353.
- (6) The license does not convey any property rights of any sort, or any exclusive privilege.
- (7) The licensee shall maintain and operate all emission units and air pollution systems required by the air emission license in a manner consistent with good air pollution control practice for minimizing emissions.
- (8) The licensee shall maintain sufficient records to accurately document compliance with emission standards and license conditions and shall maintain such records for a minimum of six (6) years. The records shall be submitted to the Department upon written request.
- (9) The licensee shall comply with all terms and conditions of the air emission license. The filing of an appeal by the licensee, the notification of planned changes or anticipated noncompliance by the licensee, or the filing of an application by the licensee for a renewal of a license or amendment shall not stay any condition of the license.

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- (10) The licensee may not use as a defense in an enforcement action that the disruption, cessation, or reduction of licensed operations would have been necessary in order to maintain compliance with the conditions of the air emission license.
- (11) In accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department, the licensee shall:
 - (i) perform stack testing to demonstrate compliance with the applicable emission standards under circumstances representative of the facility's normal process and operating conditions:
 - a. within sixty (60) calendar days of receipt of a notification to test from the Department or EPA, if visible emissions, equipment operating parameters, staff inspection, air monitoring or other cause indicate to the Department that equipment may be operating out of compliance with emission standards or license conditions; or
 - b. pursuant to any other requirement of this license to perform stack testing.
 - (ii) install or make provisions to install test ports that meet the criteria of 40 CFR Part 60, Appendix A, and test platforms, if necessary, and other accommodations necessary to allow emission testing; and
 - (iii) submit a written report to the Department within thirty (30) days from date of test completion.
- (12) If the results of a stack test performed under circumstances representative of the facility's normal process and operating conditions indicate emissions in excess of the applicable standards, then:
 - (i) within thirty (30) days following receipt of such test results, the licensee shall re-test the non-complying emission source under circumstances representative of the facility's normal process and operating conditions and in accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department; and
 - (ii) the days of violation shall be presumed to include the date of stack test and each and every day of operation thereafter until compliance is demonstrated under normal and representative process and operating conditions, except to the extent that the facility can prove to the satisfaction of the Department that there were intervening days during which no violation occurred or that the violation was not continuing in nature; and

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- (iii) the licensee may, upon the approval of the Department following the successful demonstration of compliance at alternative load conditions, operate under such alternative load conditions on an interim basis prior to a demonstration of compliance under normal and representative process and operating conditions.
- (13) Notwithstanding any other provisions in the State Implementation Plan approved by the EPA or Section 114(a) of the CAA, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any statute, regulation, or Part 70 license requirement.
- (14) The licensee shall maintain records of malfunctions, failures, downtime, and any other similar change in operation of air pollution control systems or the emissions unit itself that would affect emission and that is not consistent with the terms and conditions of the air emission license. The licensee shall notify the Department within two (2) days or the next state working day, whichever is later, of such occasions where such changes result in an increase of emissions. The licensee shall report all excess emissions in the units of the applicable emission limitation.
- (15) Upon written request from the Department, the licensee shall establish and maintain such records, make such reports, install, use and maintain such monitoring equipment, sample such emissions (in accordance with such methods, at such locations, at such intervals, and in such a manner as the Department shall prescribe), and provide other information as the Department may reasonably require to determine the licensee's compliance status.

(16) **Diesel Generator**

- a. Fuel use records and receipts for the Diesel Generator shall be maintained for at least six years and available to the Department upon request.
- b. Kennebunk L&P shall not exceed the total use of 25,000 gal/year of diesel fuel (12 month rolling total), with a sulfur content not to exceed 0.05% by weight. Note: The facility may deplete the remaining volume of 0.5% sulfur diesel fuel prior to purchasing the new, low-sulfur diesel fuel. Emissions shall be limited to the following:

<u>Pollutant</u>	<u>lb/MMBtu</u>	<u>lb/hr</u>
PM	0.10	1.40
PM ₁₀	n/a	1.40
SO_2	n/a	0.71
NO_X	n/a	44.80
CO	n/a	11.90
VOC	n/a	1.40

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	c. Visible emissions from the D a 6 minute block average, averages in a continuous 3 ho	except f	or no n			
(17)	7) Kennebunk L&P shall keep a log for the diesel generator showing the manufacturer's recommended preventative maintenance schedules are being met.					
(18)	The term of this Order shall be for	or five (5)	years fr	om the signature b	pelow.	
	E AND DATED IN AUGUSTA, M ARTMENT OF ENVIRONMENTA			DAY OF	1999.	
	MARTHA G. KIRKPATRICK, O PLEASE NOTE ATTACHED SHEET	COMMIS	SSIONE	R	DURES	
Date	of initial receipt of application: of application acceptance:	July	28, 1999	<u>)</u>		
	filed with the Board of Environmen					
inis (Order prepared by Mark E. Roberts, Bureau	ı ot Air Ou	antv			